

Replace footnote 8 on page 25 with:

A2 ⁸ Cumulative number of kanamycin-resistant colonies obtained

Replace Table 2 on page 26 with:

TABLE 2

Virulence Testing of *M. paratuberculosis* in Susceptible Mice

A3

Week	CFU/g (mean of all mice in group \pm SEM)					
	Liver		Spleen		Ileum	
	I	II	I	II	I	II
1	$5.9 \pm 0.6 \times 10^7$	$7.9 \pm 0.4 \times 10^1$	$2.7 \pm 0.3 \times 10^7$	$1.6 \pm 0.3 \times 10^2$	$3.5 \pm 0.6 \times 10^4$	$5.9 \pm 0.6 \times 10^3$
2	$1.4 \pm 0.8 \times 10^8$	$1.5 \pm 0.5 \times 10^1$	$1.1 \pm 0.4 \times 10^8$	$1.8 \pm 0.4 \times 10^2$	$4.0 \pm 0.3 \times 10^4$	$2.2 \pm 0.2 \times 10^4$
3	$2.5 \pm 0.4 \times 10^8$	Not done	$1.7 \pm 0.5 \times 10^8$	Not done	$9.9 \pm 0.6 \times 10^4$	Not done
4	Not done	$3.0 \pm 0.2 \times 10^2$	Not done	$1.6 \pm 0.3 \times 10^2$	Not done	$2.5 \pm 0.2 \times 10^4$
8	$2.9 \pm 0.6 \times 10^8$	$1.1 \pm 0.6 \times 10^3$	$5.6 \pm 0.4 \times 10^8$	$5.9 \pm 0.4 \times 10^3$	$2.2 \pm 0.3 \times 10^5$	$1.3 \pm 0.3 \times 10^4$

Replace the fifth paragraph on page 5 with:

A4 Figure 2 shows the location of the BETH-R and BETH-F primers in the Tn5367 transposon and partial results of sequencing. Also shown is the alignment of nucleotide sequence obtained from mutant GPM207 (SEQ ID NO: 5) using BETH-F and the *xerC* gene (GenBank No. Z97369) (SEQ ID NO: 6), as well as the sequences at the transposon-chromosomal junction (SEQ ID NOS: 3 & 4).

Replace the sixth paragraph on page 5 with:

A5 Figure 3 shows the effects of co-culture with either Bay y 3118 or D-cycloserine on growing (Bay y 3118, Fig. 3B; D-cycloserine, Fig. 3D) and non-growing (Bay y 3118, Fig. 3A; D-cycloserine, Fig. 3C) *M. paratuberculosis* strain K-10 in complete Middlebrook 7H9 medium. Concentrations of Bay y 3118, D-cycloserine, and the control (0X) are as given in Example 4.